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XRAM Acc no: C2000-128082

Inhibiting ectopic calcification for treating associated diseases such as atherosclerosis, diabetes and aging comprises administering osteopontin which stimulates macrophages to secrete carbonic anhydrase II

Patent Assignee: GIACHELLI C M (GIAC-I); STEITZ S (STEI-I); UNIV WASHINGTON (UNIW)

Inventor: GIACHELLI C M; STEITZ S

Patent Family (8 patents, 89 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000033865	A1	20000615	WO 1999US29173	A	19991207	200036	B
AU 200024783	A	20000626	AU 200024783	A	19991207	200045	E
EP 1135155	A1	20010926	EP 1999968097	A	19991207	200157	E
			WO 1999US29173	A	19991207		
US 20020032157	A1	20020314	US 1998206576	A	19981207	200222	E
JP 2002531517	W	20020924	WO 1999US29173	A	19991207	200278	E
			JP 2000586355	A	19991207		
US 6551990	B2	20030422	US 1998206576	A	19981207	200330	E
US 20030158113	A1	20030821	US 1998206576	A	19981207	200356	E
			US 2003376383	A	20030226		
AU 769806	B	20040205	AU 200024783	A	19991207	200413	E

Priority Applications (no., kind, date): US 1998206576 A 19981207; US 2003376383 A 20030226

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2000033865	A1	EN	91	11		
National Designated States,Original	AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW					
AU 200024783	A	EN			Based on OPI patent	WO 2000033865
EP 1135155	A1	EN			PCT Application	WO 1999US29173
					Based on OPI patent	WO 2000033865
Regional Designated	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LV MK RO SI					

States,Original						
JP 2002531517	W	JA	82		PCT Application	WO 1999US29173
					Based on OPI patent	WO 2000033865
US 20030158113	A1	EN			Division of application	US 1998206576
					Division of patent	US 6551990
AU 769806	B	EN			Previously issued patent	AU 200024783
					Based on OPI patent	WO 2000033865

Alerting Abstract WO A1

NOVELTY - Inhibiting ectopic calcification comprising administering osteopontin (I) or its functional fragment, is new.

ACTIVITY - Antiarteriosclerotic; vasotropic; antidiabetic.

MECHANISM OF ACTION - Carbonic anhydrase II-secretion enhancer. Calcifying bovine aortic smooth muscle cells were administered with 0.05, 0.05, 5 mug/ml of osteopontin, vehicle was used as a control and inhibition of calcification was assessed. Results showed complete inhibition of calcification with 5 mug/ml of osteopontin and no effect with the control.

USE - The method is useful for inhibition of ectopic calcification associated with atherosclerosis, stenosis, restenosis, prosthetic valve replacement, angioplasty, renal failure, tissue injury, diabetes or aging (claimed).

Technology Focus

ORGANIC CHEMISTRY - Preparation: (I) can be synthesized chemically.

BIOTECHNOLOGY - Preparation: (I) can be produced by standard recombinant techniques (claimed).

Preferred Method: Multinucleate foreign body giant cells such as macrophages are recruited to the site of ectopic calcification such as bioprosthetic heart valve to which the cells get attached. (I) then stimulates the cells to secrete carbonic anhydrase II which acidifies the local microenvironment and inhibits formation of hydroxyapatite crystals.

Title Terms /Index Terms/Additional Words: INHIBIT; CALCIFEROUS; TREAT; ASSOCIATE; DISEASE; ATHEROSCLEROSIS; DIABETES; COMPRISE; ADMINISTER; STIMULATING; SECRETION; CARBONIC; ANHYDRASE

Class Codes

International Patent Classification					
IPC	Class Level	Scope	Position	Status	Version Date
A61K-038/00			Main		"Version 7"
A61K-0035/14	A	I		R	20060101
A61K-0038/00	A	I	F	R	20060101

A61K-0038/16	A	I		R	20060101			
A61K-0038/17	A	I		R	20060101			
A61K-0038/18	A	I		R	20060101			
A61K-0038/19	A	I		R	20060101			
A61K-0038/22	A	I		R	20060101			
A61P-0013/10	A	I	L	R	20060101			
A61P-0013/12	A	I	L	R	20060101			
A61P-0003/00	A	I		R	20060101			
A61P-0043/00	A	I	L	R	20060101			
A61P-0009/08	A	I	L	R	20060101			
A61P-0009/10	A	I	L	R	20060101			
C07K-0001/00	A	I		R	20060101			
C07K-0014/00	A	I		R	20060101			
C07K-0014/47	A	I	L	R	20060101			
C07K-0017/00	A	I		R	20060101			
A61K-0035/14	C	I		R	20060101			
A61K-0038/00	C	I	F	R	20060101			
A61K-0038/16	C	I		R	20060101			
A61K-0038/17	C	I		R	20060101			
A61K-0038/18	C	I		R	20060101			
A61K-0038/19	C	I		R	20060101			
A61K-0038/22	C	I		R	20060101			
A61P-0013/00	C	I	L	R	20060101			
A61P-0003/00	C	I		R	20060101			
A61P-0043/00	C	I	L	R	20060101			
A61P-0009/00	C	I	L	R	20060101			
C07K-0001/00	C	I		R	20060101			
C07K-0014/00	C	I		R	20060101			
C07K-0014/435	C	I	L	R	20060101			
C07K-0017/00	C	I		R	20060101			

US Classification, Issued: 514021000, 530350000, 530824000, 514012000, 514002000, 514012000, 424085100

File Segment: CPI

DWPI Class: B04; D16; D22

Manual Codes (CPI/A-N): B04-C01G; B04-L01; B04-N02A; B14-F01; B14-F02; B14-F07; B14-

N10; B14-S04; D05-H12A; D05-H17A

Chemical Indexing

Chemical Fragment Codes (M1):

01 M905 M423 M781 P520 P814 P816 Q233 RA0TIY-K RA0TIY-T RA0TIY-U 239369-K
239369-T 239369-U

Specific Compound Numbers: RA0TIY-K; RA0TIY-T; RA0TIY-U

Derwent Chemistry Resource Numbers: (Linked) 239369-K; 239369-T; 239369-U; 239369-CL;
239369-USE

Key Word Indexing

1 239369-USE

Original Publication Data by Authority

Australia

Publication No. AU 200024783 A (Update 200045 E)

Publication Date: 20000626

Assignee: UNIV WASHINGTON; US (UNIW)

Language: EN

Application: AU 200024783 A 19991207 (Local application)

Priority: US 1998206576 A 19981207

Related Publication: WO 2000033865 A (Based on OPI patent)

Original IPC: A61K-38/19(A) A61K-35/14(B) A61P-3/00(B) A61P-9/10(B) A61P-13/12(B) A61P-43/00(B)

Current IPC: A61K-35/14(R,A,I,M,EP,20060101,20051110,A) A61K-35/14(R,I,M,EP,20060101,20051110,C) A61K-38/00(R,I,M,JP,20060101,20051220,A,F) A61K-38/00(R,I,M,JP,20060101,20051220,C,F) A61K-38/16(R,I,M,EP,20060101,20051110,A) A61K-38/16(R,I,M,EP,20060101,20051110,C) A61K-38/17(R,I,M,EP,20060101,20051110,A) A61K-38/17(R,I,M,EP,20060101,20051110,C) A61K-38/18(R,I,M,EP,20060101,20051110,A) A61K-38/18(R,I,M,EP,20060101,20051110,C) A61K-38/19(R,I,M,EP,20060101,20051110,A) A61K-38/19(R,I,M,EP,20060101,20051110,C) A61K-38/22(R,I,M,EP,20060101,20051110,A) A61K-38/22(R,I,M,EP,20060101,20051110,C) A61P-13/00(R,I,M,JP,20060101,20051220,C,L) A61P-13/10(R,I,M,JP,20060101,20051220,A,L) A61P-13/12(R,I,M,JP,20060101,20051220,A,L) A61P-3/00(R,I,M,EP,20060101,20051110,A) A61P-3/00(R,I,M,EP,20060101,20051110,C) A61P-43/00(R,I,M,JP,20060101,20051220,A,L) A61P-43/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/08(R,I,M,JP,20060101,20051220,A,L) A61P-9/10(R,I,M,JP,20060101,20051220,A,L) C07K-1/00(R,I,M,EP,20060101,20051110,A) C07K-1/00(R,I,M,EP,20060101,20051110,C) C07K-14/00(R,I,M,EP,20060101,20051110,A) C07K-14/00(R,I,M,EP,20060101,20051110,C) C07K-14/435(R,I,M,JP,20060101,20051220,C,L) C07K-14/47(R,I,M,JP,20060101,20051220,A,L) C07K-17/00(R,I,M,EP,20060101,20051110,A) C07K-17/00(R,I,M,EP,20060101,20051110,C)

Publication No. AU 769806 B (Update 200413 E)

Publication Date: 20040205

Assignee: UNIV WASHINGTON; US (UNIW)

Language: EN

Application: AU 200024783 A 19991207 (Local application)

Priority: US 1998206576 A 19981207

Related Publication: AU 200024783 A (Previously issued patent)

WO 2000033865 A (Based on OPI patent)

Current IPC: A61K-35/14(R,I,M,EP,20060101,20051110,A) A61K-35/14(R,I,M,EP,20060101,20051110,C) A61K-38/00(R,I,M,JP,20060101,20051220,A,F) A61K-38/00(R,I,M,JP,20060101,20051220,C,F) A61K-38/16(R,I,M,EP,20060101,20051110,A) A61K-38/16(R,I,M,EP,20060101,20051110,C) A61K-38/17(R,I,M,EP,20060101,20051110,A) A61K-38/17(R,I,M,EP,20060101,20051110,C) A61K-38/18(R,I,M,EP,20060101,20051110,A) A61K-38/18(R,I,M,EP,20060101,20051110,C) A61K-38/19(R,I,M,EP,20060101,20051110,A) A61K-38/19(R,I,M,EP,20060101,20051110,C) A61K-38/22(R,I,M,EP,20060101,20051110,A) A61K-38/22(R,I,M,EP,20060101,20051110,C) A61P-13/00(R,I,M,JP,20060101,20051220,C,L) A61P-13/10(R,I,M,JP,20060101,20051220,A,L) A61P-13/12(R,I,M,JP,20060101,20051220,A,L) A61P-3/00(R,I,M,EP,20060101,20051110,A) A61P-3/00(R,I,M,EP,20060101,20051110,C) A61P-43/00(R,I,M,JP,20060101,20051220,A,L) A61P-43/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/08(R,I,M,JP,20060101,20051220,A,L) A61P-9/10(R,I,M,JP,20060101,20051220,A,L) C07K-1/00(R,I,M,EP,20060101,20051110,A) C07K-1/00(R,I,M,EP,20060101,20051110,C) C07K-14/00(R,I,M,EP,20060101,20051110,A) C07K-14/00(R,I,M,EP,20060101,20051110,C) C07K-14/435(R,I,M,JP,20060101,20051220,C,L) C07K-14/47(R,I,M,JP,20060101,20051220,A,L) C07K-17/00(R,I,M,EP,20060101,20051110,A) C07K-17/00(R,I,M,EP,20060101,20051110,C)

EPO

Publication No. EP 1135155 A1 (Update 200157 E)

Publication Date: 20010926

VERFAHREN ZUR HEMMUNG EKTOPISCHER VERKALKUNG

METHODS OF INHIBITING ECTOPIC CALCIFICATION

PROCEDES PERMETTANT D'INHIBER LA CALCIFICATION ECTOPIQUE

Assignee: University of Washington, 1107 N.E. 45th Street, Suite 200, Seattle, WA 98105, US

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Agent: UEXKULL & STOLBERG, Patentanwälte, Beselerstrasse 4, 22607 Hamburg, DE

Language: EN

Application: EP 1999968097 A 19991207 (Local application)

WO 1999US29173 A 19991207 (PCT Application)

Priority: US 1998206576 A 19981207

Related Publication: WO 2000033865 A (Based on OPI patent)

Designated States: (Regional Original) AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LV MK RO SI

Original IPC: A61K-38/19(A) A61K-35/14(B) A61P-3/00(B) A61P-9/10(B) A61P-13/12(B) A61P-43/00(B)

Current IPC: A61K-35/14(R,A,I,M,EP,20060101,20051110,A) A61K-

35/14(R,I,M,EP,20060101,20051110,C) A61K-38/00(R,I,M,JP,20060101,20051220,A,F) A61K-38/00(R,I,M,JP,20060101,20051208,C,F) A61K-38/16(R,I,M,EP,20060101,20051110,A) A61K-38/16(R,I,M,EP,20060101,20051110,C) A61K-38/17(R,I,M,EP,20061008,20051101,A) A61K-38/17(R,I,M,EP,20060101,20051110,C) A61K-38/18(R,I,M,EP,20060101,20051110,A) A61K-38/18(R,I,M,EP,20061008,20051110,C) A61K-38/19(R,I,M,EP,20060101,20051110,A) A61K-38/19(R,I,M,EP,20060101,20051110,C) A61K-38/22(R,I,M,EP,20060101,20051110,A) A61K-38/22(R,I,M,EP,20060101,20051110,C) A61P-13/00(R,I,M,JP,20060101,20051220,C,L) A61P-13/10(R,I,M,JP,20060101,20051220,A,L) A61P-13/12(R,I,M,JP,20060101,20051220,A,L) A61P-3/00(R,I,M,EP,20060101,20051110,A) A61P-3/00(R,I,M,EP,20060101,20051110,C) A61P-43/00(R,I,M,JP,20060101,20051220,A,L) A61P-43/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/08(R,I,M,JP,20060101,20051220,A,L) A61P-9/10(R,I,M,JP,20060101,20051220,A,L) C07K-1/00(R,I,M,EP,20060101,20051110,A) C07K-1/00(R,I,M,EP,20060101,20051110,C) C07K-14/00(R,I,M,EP,20060101,20051110,A) C07K-14/00(R,I,M,EP,20060101,20051110,C) C07K-14/435(R,I,M,JP,20060101,20051220,C,L) C07K-14/47(R,I,M,JP,20060101,20051220,A,L) C07K-17/00(R,I,M,EP,20060101,20051110,A) C07K-17/00(R,I,M,EP,20060101,20051110,C)

Original Abstract:

The invention provides a method of inhibiting ectopic calcification in an individual. The method consists of administering to the individual a therapeutically effective amount of osteopontin or a functional fragment thereof. The invention also provides a method of treating or inhibiting ectopic calcification by administering to an individual acid-producing cells targeted to the site of ectopic calcification. The invention further provides a method of treating or inhibiting ectopic calcification in an individual consisting of promoting recruitment of acid producing cells to a site of ectopic calcification by administering osteopontin. The invention also provides a method of treating or inhibiting ectopic calcification in an individual consisting of increasing expression of carbonic anhydrase II at a site of ectopic calcification by administering osteopontin.

Japan

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Publication Date: 20020924

Language: JA (82 pages)

Application: WO 1999US29173 A 19991207 (PCT Application)

JP 2000586355 A 19991207 (Local application)

Priority: US 1998206576 A 19981207

Related Publication: WO 2000033865 A (Based on OPI patent)

Original IPC: C07K-14/47(-) A61K-38/00(A) A61P-9/08(B) A61P-9/10(B) A61P-13/10(B) A61P-13/12(B) A61P-43/00(B)

Current IPC: C07K-14/47(-) A61K-38/00(A) A61P-9/08(B) A61P-9/10(B) A61P-13/10(B) A61P-13/12(B) A61P-43/00(B)

United States

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Publication Date: 20020314

METHODS OF INHIBITING ECTOPIC CALCIFICATION

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Language: EN

Application: US 1998206576 A 19981207 (Local application)

Original IPC: A61K-38/16(A) A61K-38/00(B) C07K-1/00(B) C07K-14/00(B) C07K-17/00(B)

Current IPC: A61K-35/14(R,A,I,M,EP,20060101,20051110,A) A61K-

35/14(R,I,M,EP,20060101,20051110,C) A61K-38/00(R,I,M,JP,20060101,20051220,A,F) A61K-38/00(R,I,M,JP,20060101,20051220,C,F) A61K-38/16(R,I,M,EP,20060101,20051110,A) A61K-38/16(R,I,M,EP,20060101,20051110,C) A61K-38/17(R,I,M,EP,20060101,20051110,A) A61K-38/17(R,I,M,EP,20060101,20051110,C) A61K-38/18(R,I,M,EP,20060101,20051110,A) A61K-38/18(R,I,M,EP,20060101,20051110,C) A61K-38/19(R,I,M,EP,20060101,20051110,A) A61K-38/19(R,I,M,EP,20060101,20051110,C) A61K-38/22(R,I,M,EP,20060101,20051110,A) A61K-38/22(R,I,M,EP,20060101,20051110,C) A61P-13/00(R,I,M,JP,20060101,20051220,C,L) A61P-13/10(R,I,M,JP,20060101,20051220,A,L) A61P-13/12(R,I,M,JP,20060101,20051220,A,L) A61P-3/00(R,I,M,EP,20060101,20051110,A) A61P-3/00(R,I,M,EP,20060101,20051110,C) A61P-43/00(R,I,M,JP,20060101,20051220,A,L) A61P-43/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/08(R,I,M,JP,20060101,20051220,A,L) A61P-9/10(R,I,M,JP,20060101,20051220,A,L) C07K-1/00(R,I,M,EP,20060101,20051110,A) C07K-1/00(R,I,M,EP,20060101,20051110,C) C07K-14/00(R,I,M,EP,20060101,20051110,A) C07K-14/00(R,I,M,EP,20060101,20051110,C) C07K-14/435(R,I,M,JP,20060101,20051220,C,L) C07K-14/47(R,I,M,JP,20060101,20051220,A,L) C07K-17/00(R,I,M,EP,20060101,20051110,A) C07K-17/00(R,I,M,EP,20060101,20051110,C)

Original US Class (main): 51421

Original US Class (secondary): 530350 530824

Original Abstract:

The invention provides a method of inhibiting ectopic calcification in an individual. The method consists of administering to the individual a therapeutically effective amount of osteopontin or a functional fragment thereof.

Claim:

What is claimed is:

1. A method of inhibiting ectopic calcification in an individual, comprising administering to said individual a therapeutically effective amount of osteopontin or a functional fragment thereof.

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Publication Date: 20030821

Methods of inhibiting ectopic calcification

Assignee: Giachelli, Cecilia M., Mill Creek, WA, US (GIAC-I)

Steitz, Susie, Seattle, WA, US (STEI-I)

Inventor: Giachelli, Cecilia M., Mill Creek, WA, US

Steitz, Susie, Seattle, WA, US

Agent: CAMPBELL & FLORES LLP, 4370 LA JOLLA VILLAGE DRIVE, 7TH FLOOR, SAN DIEGO, CA, US

Language: EN

Application: US 1998206576 A 19981207 (Division of application)

US 2003376383 A 20030226 (Local application)

Related Publication: US 6551990 A (Division of patent)

Original IPC: A61K-38/17(A)

Current IPC: A61K-35/14(R,A,I,M,EP,20060101,20051110,A) A61K-

35/14(R,I,M,EP,20060101,20051110,C) A61K-38/00(R,I,M,JP,20060101,20051220,A,F) A61K-38/00(R,I,M,JP,20060101,20051110,C,F) A61K-38/16(R,I,M,EP,20060101,20051110,A) A61K-38/16(R,I,M,EP,20060101,20051110,C) A61K-38/17(R,I,M,EP,20060101,20051110,A) A61K-38/17(R,I,M,EP,20060101,20051110,C) A61K-38/18(R,I,M,EP,20060101,20051110,A) A61K-38/18(R,I,M,EP,20060101,20051110,C) A61K-38/19(R,I,M,EP,20060101,20051110,A) A61K-38/19(R,I,M,EP,20060101,20051110,C) A61K-38/22(R,I,M,EP,20060101,20051110,A) A61K-38/22(R,I,M,EP,20060101,20051110,C) A61P-13/00(R,I,M,JP,20060101,20051220,C,L) A61P-13/10(R,I,M,JP,20060101,20051220,A,L) A61P-13/12(R,I,M,JP,20060101,20051220,A,L) A61P-3/00(R,I,M,EP,20060101,20051110,A) A61P-3/00(R,I,M,EP,20060101,20051110,C) A61P-43/00(R,I,M,JP,20060101,20051220,A,L) A61P-43/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/00(R,I,M,JP,20060101,20051220,C,L) A61P-9/08(R,I,M,JP,20060101,20051220,A,L) A61P-9/10(R,I,M,JP,20060101,20051220,A,L) C07K-1/00(R,I,M,EP,20060101,20051110,A) C07K-1/00(R,I,M,EP,20060101,20051110,C) C07K-14/00(R,I,M,EP,20060101,20051110,A) C07K-14/00(R,I,M,EP,20060101,20051110,C) C07K-14/435(R,I,M,JP,20060101,20051220,C,L) C07K-14/47(R,I,M,JP,20060101,20051220,A,L) C07K-17/00(R,I,M,EP,20060101,20051110,A) C07K-17/00(R,I,M,EP,20060101,20051110,C)

Original US Class (main): 51412

Original Abstract:

The invention provides a method of inhibiting ectopic calcification in an individual. The method consists of administering to the individual a therapeutically effective amount of osteopontin or a functional fragment thereof.

Claim:

What is claimed is:

1. A method of inhibiting ectopic calcification in an individual, comprising administering to said individual a therapeutically effective amount of osteopontin or a functional fragment thereof.

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Methods of inhibiting ectopic calcification

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Original Abstract:

The invention provides a method of inhibiting ectopic calcification in an individual. The method consists of administering to the individual a therapeutically effective amount of osteopontin or a functional fragment thereof.

Claim:

What is claimed is:

1. 1. A method of inhibiting ectopic calcification in an individual, comprising administering to said individual a therapeutically effective amount of osteopontin or a functional fragment thereof sufficient to inhibit ectopic calcification in said individual.

WIPO

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METHODS OF INHIBITING ECTOPIC CALCIFICATION

PROCEDES PERMETTANT D'INHIBER LA CALCIFICATION ECTOPIQUE

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Original Abstract:

The invention provides a method of inhibiting ectopic calcification in an individual. The method consists of administering to the individual a therapeutically effective amount of osteopontin or a functional fragment thereof. The invention also provides a method of treating or inhibiting ectopic calcification by administering to an individual acid-producing cells targeted to the site of ectopic calcification. The invention further provides a method of treating or inhibiting ectopic calcification

in an individual consisting of promoting recruitment of acid producing cells to a site of ectopic calcification by administering osteopontin. The invention also provides a method of treating or inhibiting ectopic calcification in an individual consisting of increasing expression of carbonic anhydrase II at a site of ectopic calcification by administering osteopontin.

La presente invention concerne un procede permettant d'inhiber la calcification ectopique chez un individu. Le procede consiste a administrer a l'individu une quantite efficace du point de vue therapeutique d'osteopontine ou d'un fragment fonctionnel d'osteopontine. Cette invention concerne egalement un procede utilise pour traiter ou pour inhiber la calcification ectopique au moyen de l'administration a un individu de cellules produisant de l'acide ciblees sur le site de la calcification ectopique; un procede de traitement ou d'inhibition de la calcification ectopique chez un individu qui consiste a favoriser le recrutement de cellules productrices d'acide destinees a un site de calcification ectopique par administration d'osteopontine; et un procede permettant de traiter ou d'inhiber chez un individu la calcification ectopique qui consiste a accroitre l'expression de l'anhydrase carbonique II au niveau d'un site de calcification ectopique par administration d'osteopontine.